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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

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Application No. Applicant(s) 10/540.866 MATSUMURA ET AL. Office Action Summary Examiner Art Unit MELISSA WINKLER 1796 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS. WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status 1) Responsive to communication(s) filed on 26 November 2007. 2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1-16 is/are pending in the application. 4a) Of the above claim(s) _____ is/are withdrawn from consideration. 5) Claim(s) _____ is/are allowed. 6) Claim(s) 1-16 is/are rejected. 7) Claim(s) _____ is/are objected to. 8) Claim(s) _____ are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are; a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abevance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.

DETAILED ACTION

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1, 2, 6, and 7 are rejected under 35 U.S.C. 103(a) as being unpatentable over JP 1-284536 to Takamasa et al. (Patent Family 2668384) when considered with applicants' admitted prior art in the instant specification.

Regarding Claims 1, 2, 7, and 6. Takamasa et al. teach a method for producing expandable particles/beads of a vinyl aromatic-modified (i.e. styrene-modified) polyethylene-based resin (English-language Abstract, Lines 1-3).

The applicants' admitted prior art in the instant specification provides evidence that Takamasa et al. use a non-crosslinked linear low-density polyethylene. Furthermore, the composition of the polyethylene-based resin is 100 parts by weight of non-crosslinked linear low-density polyethylene-based resin beads, 5 to 300 parts by weight of a vinyl aromatic monomer (e.g. styrene-based monomer), 1 to 3 parts by

weight of a polymerization initiator relative to 100 parts by weight of the vinyl aromatic monomer. These ingredients are dispersed in an aqueous medium to obtain a dispersion (Instant Specification: Page 2, Lines 21 – 25 - Page 3, Lines 1 – 6). In the English-language abstract, Takamasa et al. state that a suspending agent such may also be dispersed in the aqueous medium (Lines 5 – 8), thereby rendering this aqueous medium a suspension.

While Takamasa et al. do not teach the claimed amount of polymerization initiator, the experimental modification of this prior art in order to ascertain optimum operating conditions fails to render applicants' claims patentable in the absence of unexpected results. *In re Aller*, 105 USPQ 233. At the time of the invention, it would have been obvious to a person of ordinary skill in the art to optimize the amount of polymerization initiator used so that the desirable degree of polymerization (or gel content) is obtained. A prima facie case of obviousness may be rebutted, however, where the results of the optimizing variable, which is known to be result-effective, are unexpectedly good. *In re Boesch and Slaney*, 205 USPO 215.

The dispersion formed is heated at a temperature such that the vinyl aromatic (e.g. styrene) monomer is infiltrated/impregnated into the polyethylene resin particles/beads but polymerization of the monomer does not substantially occur (English-language Abstract, Lines 9 – 11).

The applicants' admitted prior art in the instant specification also provides evidence that Takamasa et al. use linear low-density polyethylene-based resin beads with a melting point of 122°C (Instant Specification: Page 3, Lines 22 – 25). The polymerization of the vinyl aromatic (e.g. styrene) monomer is performed at a temperature of 115°C.

Takamasa et al. disclose that the particles are impregnated with a volatile blowing agent during or after the polymerization (English-language Abstract, Lines 12 – 13).

The applicants' admitted prior art in the instant specification further provides evidence that the resin components of the expandable beads of Takamasa et al. contain a gel component comprising the graft polymer of polystyrene on the polyethylene chain (Page 4, Lines 4 – 12). However, the specific percentage weight of the gel component comprising the graft polymer when a polymerization initiator is used in the claimed amount is not disclosed. Consequently, the Office realizes that all of the claimed effects or physical properties are not positively stated by the reference(s). However, the reference(s) teaches all of the claimed ingredient(s), and process limitation(s).

Therefore, the claimed effects and physical properties, i.e. a gel component comprising less than 2 wt% of a graft polymer, would intrinsically be achieved by a composition with all the claimed ingredients. If it is the applicant's position that this would not be

the case: (1) evidence would need to be provided to support the applicant's position; and (2) it would be the Office's position that the application contains inadequate disclosure that there is no teaching as to how to obtain the claimed properties with only the claimed ingredients.

Claims 12 and 15 are rejected under 35 U.S.C. 103(a) as being unpatentable over JP 1-284536 to Takamasa et al. (Patent Family 2668384) and the applicants' admitted prior art as applied to Claims 1, 2, and 7 above, and further in view of US 3,963,816 to Smith et al.

Takamasa et al. teach the expandable beads of styrene-modified linear lowdensity polyethylene-based resin as indicated in the discussion of Claims 1, 2, and 7.

Regarding Claims 12 and 15. In view of the applicants' admitted prior art in the instant specification, Takamasa et al. teach an expanded molded article derived from the aforementioned expandable beads (Page 2, Lines 21 – 24). Takamasa et al. do not expressly indicate a method of obtaining this expanded molded article by preexpanding the expandable beads. However, Smith et al. do teach an expanded molded article derived from pre-expanded beads. These beads are made by pre-expanding expandable beads of polyethylene and/or styrene (Column 3, Lines 1 – 18 and Column 4, Lines 3 – 12). Takamasa et al. and Smith et al. are combinable because they are from

the same field of endeavor, namely expandable resin beads containing polyethylene and styrene. At the time of invention, it would have been obvious to a person of ordinary skill in the art to pre-expand the resin beads, as taught by Smith et al., to obtain the expanded molded article taught by Takamasa et al. The motivation would have been that pre-expanding the beads allows one to control the density of the final product, which, in this case, is an expanded molded article.

Claim 4 is rejected under 35 U.S.C. 103(a) as being unpatentable over JP 1-284536 to Takamasa et al. (Patent Family 2668384) and the applicants' admitted prior art as applied to Claim 1 above, and further in view of US 4,368,218 to Senda et al.

Takamasa et al. teach a method of producing expandable beads of a vinyl aromatic-modified (i.e. styrene-modified) polyethylene-based resin as described in Claim 1.

Regarding Claim 4. Takamasa et al. do not specify a shape for the expandable beads produced by their method. However, Senda et al. also teach a method of making expandable thermoplastic polymer beads in which a core of vinyl monomer (e.g. styrene) is surround by a layer of polyolefin (e.g. polyethylene). The expandable thermoplastic polymer beads generally have a spherical or ellipsoidal form/shape and range from 400 to 8000 microns (0.4 to 8.0 mm) in size (Column 4, Lines 30 – 34).

Takamasa et al. and Senda et al. are analogous art because they are from the same field of endeavor, namely expandable polyethylene beads. At the time of the invention, it would have been obvious to a person of ordinary skill in the art to form spherically shaped resin beads from the product of the method disclosed by Takamasa et al. The motivation would have been that electing a spherical shape for the resin bead would improve upon its expansion ratio, heat resistance, and mechanical properties.

Claims 11 and 14 are rejected under 35 U.S.C. 103(a) as being unpatentable over JP 1-284536 to Takamasa et al. (Patent Family 2668384) and the applicants' admitted prior art as applied to Claims 1 and 6 above, and further in view of US 3,963,816 to Smith et al.

Takamasa et al. teach the expandable beads of styrene-modified linear lowdensity polyethylene-based resin as indicated in the discussion of Claims 1 and 6 above.

Regarding Claims 11 and 14. In view of the applicants' admitted prior art in the instant specification, Takamasa et al. teach an expanded molded article derived from the aforementioned expandable beads (Page 2, Lines 21 – 24). Takamasa et al. do not expressly indicate a method of obtaining this expanded molded article by preexpanding the expandable beads. However, Smith et al. do teach an expanded molded article derived from pre-expanded beads. These beads are made by pre-expanding

expandable beads of polyethylene and/or styrene (Column 3, Lines 1-18 and Column 4, Lines 3-12). Takamasa et al. and Smith et al. are combinable because they are from the same field of endeavor, namely expandable resin beads containing polyethylene and styrene. At the time of invention, it would have been obvious to a person of ordinary skill in the art to pre-expand the resin beads, as taught by Smith et al., to obtain the expanded molded article taught by Takamasa et al. The motivation would have been that pre-expanding the beads allows one to control the density of the final product, which, in this case, is an expanded molded article.

Claims 3 and 8 are rejected under 35 U.S.C. 103(a) as being unpatentable over JP 1 284536 to Takamasa et al. (Patent Family 2668384) and the applicants' admitted prior art in view of US 6,608,150 to Wicher et al.

Regarding Claims 3 and 8. Takamasa et al. teach a method for producing expandable particles/beads of a vinyl aromatic-modified (i.e. styrene-modified) polyethylene-based resin (English-language Abstract, Lines 1-3).

In view of the applicants' admitted prior art in the instant specification,

Takamasa et al. indicate that the polyethylene used is non-crosslinked linear lowdensity polyethylene. Furthermore, the composition of the polyethylene-based resin is

100 parts by weight of non-crosslinked linear low-density polyethylene-based resin

beads, 5 to 300 parts by weight of a vinyl aromatic monomer (e.g. styrene-based monomer), 1 to 3 parts by weight of a polymerization initiator relative to 100 parts by weight of the vinyl aromatic monomer. These ingredients are dispersed in an aqueous medium to obtain a dispersion (Instant Specification: Page 2, Lines 21 - 25 - Page 3, Lines 1 - 6). In the English-language abstract, Takamasa et al. state that a suspending agent such may also be dispersed in the aqueous medium (Lines 5 - 8), thereby rendering this aqueous medium a suspension.

The dispersion formed is heated at a temperature such that the vinyl aromatic (e.g. styrene) monomer is infiltrated/impregnated into the polyethylene resin particles/beads but polymerization of the monomer does not substantially occur (English-language Abstract, Lines 9 – 11).

In view of the applicants' admitted prior art in the instant specification,

Takamasa et al. use linear low-density polyethylene-based resin beads with a melting point of 122°C (Instant Specification: Page 3, Lines 22 – 25). The polymerization of the vinyl aromatic (e.g. styrene) monomer is performed at a temperature of 115°C.

Takamasa et al. do not disclose a second polymerization in their method for producing expandable beads. However, Wicher et al. teach a step-wise process for polymerizing styrene monomer using two different temperature stages. A polymerizing initiator such as organic peroxide is used in the final polymerization step

preferably in an amount from 0.002 to 0.006 equivalents of peroxide initiator per liter of styrene (Column 6, Lines 54 – 59). During the second polymerization, the suspension is heated at a temperature of between 110 and 115°C (see Examples). Takamasa et al. and Wicher et al. are analogous art because they encompass the same field of endeavor, namely the suspension polymerization process of styrene monomer. At the time of invention, it would have been obvious to a person of ordinary skill in the art to include an additional polymerization step in the process described by Takamasa et al. The motivation would have been that an additional polymerization step would be to provide for a more complete polymerization of styrene, thereby reducing monomer content to acceptable levels for commercial processing.

In the polymerization step disclosed by Takamasa et al., the total amount of vinyl aromatic (e.g. styrene) monomer used is 5 to 300 parts by weight relative to 100 parts by weight of the low-density polyethylene-based resin beads.

Takamasa et al. furthermore disclose that the particles are impregnated with a volatile blowing agent during or after the polymerization (English-language Abstract, Lines 12 – 13).

In view of the applicants' admitted prior art in the instant specification, the resin components of the expandable beads contain a gel component comprising the graft polymer of polystyrene on the polyethylene chain (Page 4, Lines 4 - 12), though what

specific percentage weight of the gel component is comprised by the graft polymer is not disclosed by Takamasa et al. Consequently, the Office realizes that all of the claimed effects or physical properties are not positively stated by the reference(s). However, the reference(s) teaches all of the claimed ingredient(s), and process limitation(s). Therefore, the claimed effects and physical properties, i.e. a gel component comprising less than 2 wt% of a graft polymer, would implicitly be achieved by a composition with all the claimed ingredients. If it is the applicant's position that this would not be the case: (1) evidence would need to be provided to support the applicant's position; and (2) it would be the Office's position that the application contains inadequate disclosure that there is no teaching as to how to obtain the claimed properties with only the claimed ingredients.

Claims 13 and 16 are rejected under 35 U.S.C. 103(a) as being unpatentable over are rejected under 35 U.S.C. 103(a) as being unpatentable over JP 1-284536 to Takamasa et al. (Patent Family 2668384) and the applicants' admitted prior art in view of US 6,608,150 to Wicher et al. as applied to Claims 3 and 8 above, and further in view of US 3,963,816 to Smith et al.

Takamasa et al., in view of the applicants' admitted prior art and Wicher et al., teach the expandable beads of styrene-modified linear low-density polyethylene-based resin as indicated in the discussion of Claims 3 and 8.

Regarding Claims 13 and 16. In view of the applicants' admitted prior art in the instant specification, Takamasa et al. teach an expanded molded article derived from the aforementioned expandable beads (Page 2, Lines 21 - 24). Takamasa et al. do not expressly indicate a method of obtaining this expanded molded article by preexpanding the expandable beads. However, Smith et al. do teach an expanded molded article derived from pre-expanded beads. These beads are made by pre-expanding expandable beads of polyethylene and/or styrene (Column 3, Lines 1 - 18 and Column 4, Lines 3 - 12). Takamasa et al. and Smith et al. are combinable because they are from the same field of endeavor, namely expandable resin beads containing polyethylene and styrene. At the time of invention, it would have been obvious to a person of ordinary skill in the art to pre-expand the resin beads, as taught by Smith et al., to obtain the expanded molded article taught by Takamasa et al. The motivation would have been that pre-expanding the beads allows one to control the density of the final product, which, in this case, is an expanded molded article.

Claim 5 is rejected under 35 U.S.C. 103(a) as being unpatentable over JP 1-284536 to Takamasa et al. (Patent Family 2668384) when considered with applicants' admitted prior art in the instant specification.

Regarding Claim 5. Takamasa et al. disclose expandable beads of a styrenemodified linear low-density polyethylene-based resin, which contain a volatile blowing agent (English-language Abstract, Lines 1-3 and 12 - 13). The beads also contain a base resin that is 5 to 300 parts by weight of a vinyl aromatic monomer (e.g. styrene-based monomer) and 1 to 3 parts by weight of a polymerization initiator relative to 100 parts by weight of non-crosslinked linear low-density polyethylene-based resin. However, the experimental modification of this prior art in order to ascertain optimum operating conditions fails to render applicants' claims patentable in the absence of unexpected results. In re Aller, 105 USPQ 233. At the time of the invention, it would have been obvious to a person of ordinary skill in the art to optimize the amount of polymerization initiator used so that the desirable degree of polymerization (or gel content) is obtained. A prima facie case of obviousness may be rebutted, however, where the results of the optimizing variable, which is known to be result-effective, are unexpectedly good. In re Boesch and Slaney, 205 USPO 215.

The applicants' admitted prior art in the instant specification provides evidence that the resin components of the expandable beads of Takamasa et al. contain a gel

component comprising the graft polymer of polystyrene on the polyethylene chain (Page 3, Lines 13 – 25), though the specific percentage weight of the gel component comprising the graft polymer is not disclosed. Consequently, the Office realizes that all of the claimed effects or physical properties are not positively stated by the reference(s). However, the reference(s) teaches all of the claimed ingredient(s), and process limitation(s). Therefore, the claimed effects and physical properties, i.e. a gel component comprising less than 2 wt% of a graft polymer, would implicitly be achieved by a composition with all the claimed ingredients. If it is the applicant's position that this would not be the case: (1) evidence would need to be provided to support the applicant's position; and (2) it would be the Office's position that the application contains inadequate disclosure that there is no teaching as to how to obtain the claimed properties with only the claimed ingredients.

Claims 9 and 10 are rejected under 35 U.S.C. 103(a) as being unpatentable over JP 1-284536 to Takamasa et al. (Patent Family 2668384) and the applicants' admitted prior art as applied to Claim 5 above, and further in view of US 3,963,816 to Smith et al.

Takamasa et al. teach the expandable beads of styrene-modified linear lowdensity polyethylene-based resin as indicated in the discussion of Claims 5. Art Unit: 1796

Regarding Claims 9 and 10. In view of the applicants' admitted prior art in the instant specification, Takamasa et al. teach an expanded molded article derived from the aforementioned expandable beads (Page 2, Lines 21 - 24). Takamasa et al. do not expressly indicate a method of obtaining this expanded molded article by preexpanding the expandable beads. However, Smith et al. do teach an expanded molded article derived from pre-expanded beads. These beads are made by pre-expanding expandable beads of polyethylene and/or styrene (Column 3, Lines 1 - 18 and Column 4, Lines 3 – 12). Takamasa et al. and Smith et al. are combinable because they are from the same field of endeavor, namely expandable resin beads containing polyethylene and styrene. At the time of invention, it would have been obvious to a person of ordinary skill in the art to pre-expand the resin beads, as taught by Smith et al., to obtain the expanded molded article taught by Takamasa et al. The motivation would have been that pre-expanding the beads allows one to control the density of the final product, which, in this case, is an expanded molded article.

Double Patenting

The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. A nonstatutory obviousness-type double patenting rejection is appropriate where the conflicting claims are not identical, but at least one examined application claim is not patentably distinct from the reference claim(s) because the examined application claim is either anticipated by, or would have been obvious over, the reference claim(s). See, e.g., *In re Berg*, 140 F.3d 1428, 46 USPQ2d 1226 (Fed. Cir. 1998); *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) or 1.321(d) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent either is shown to be commonly owned with this application, or claims an invention made as a result of activities undertaken within the scope of a joint research agreement.

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

Claims 1 - 16 are provisionally rejected on the ground of nonstatutory obviousness-type double patenting as being unpatentable over Claims 1 and 3 - 9 of copending Application No. 10/541,391. Although the conflicting claims are not identical, they are not patentably distinct from each other because the claims are obvious variations upon each other. The claimed methods and products made appear to be modifications of each other derived from routine experimentation and optimization, such as in the case of the closely related polymerization temperature ranges indicated in either set of claims.

This is a <u>provisional</u> obviousness-type double patenting rejection because the conflicting claims have not in fact been patented.

Regarding Claims 1 - 3. Current Claims 1 - 3 correspond to Claim 1 of Application No. 10/541,391.

Regarding Claim 4. Current Claim 4 corresponds to Claim 3 of Application No. 10/541,391.

Regarding Claim 5. Current Claim 5 corresponds to Claim 4 of Application No. 10/541,391.

Regarding Claims 6 - 8. Current Claims 6 - 8 correspond to Claim 5 of Application No. 10/541,391.

Regarding Claim 9. Current Claim 9 corresponds to Claim 6 of Application No. 10/541,391.

Regarding Claim 10. Current Claim 10 corresponds to Claim 7 of Application No. 10/541,391.

Regarding Claims 11 - 13. Current Claims 11 - 13 correspond to Claim 8 of Application No. 10/541,391.

Regarding Claims 14 - 16. Current Claims 14 - 16 correspond to Claim 9 of Application No. 10/541,391.

Response to Arguments

Applicant's arguments with respect to Claims 1, 2, 7, 12, 15, 4, 6, 11, 14, 5, 9, and 10 have been considered but are moot in view of the new ground(s) of rejection.

All other arguments filed November 26, 2007 have been fully considered but they are not persuasive because:

- A) In response to the applicants' assertion that the Takamasa et al. and Wicher et al. references are non-analogous art, it has been held that a prior art reference must either be in the field of applicant's endeavor or, if not, then be reasonably pertinent to the particular problem with which the applicant was concerned, in order to be relied upon as a basis for rejection of the claimed invention. See *In re Oetiker*, 977 F.2d 1443, 24 USPQ2d 1443 (Fed. Cir. 1992). In this case, Takamasa et al. and Wicher et al. are both in the field of the applicants' endeavor, as both are concerned with the suspension polymerization of styrene monomers.
- B) In response to the applicants' argument that the combination of Takamasa et al. and Wicher et al. would not result in the claimed subject matter, the disclosure of Wicher et al. is relied upon to teach the second polymerization step. Though Wicher et al. teach the styrene-based monomer is not added in two portions, a second polymerization step taught by Wicher et al. would require the addition of more styrene

(see Examples) and one may consequently arrive at the weight range of styrene taught by the applicants.

C) In response the applicants' assertion that Wicher et al. do not teach two defined stages of polymerization and the percent conversion of styrene at which the first stage of polymerization is completed, while the polymerization initiators are present from the beginning of the polymerization, they are activated at different temperatures. In Example 4 of the Wicher et al. disclosure, dibenzyol peroxide (BPO), tbutyl peroxy-2-methylpropanoate (TBPMP), and 1,1,3,3-tetramethylbutyl peroxyacetate (TOPA) are added to the styrene monomer mixture. The mixture is then heated at 90°C for six hours (Column 9, Lines 27 - 36). Importantly, TOPA has a one hour half-life temperature is from 101° to 111°C, a one hour half-life temperature that is 7 to 17°C higher than that of BPO (Column 5, Lines 9 - 22). BPO is also indicated to have a percent conversion of styrene of 82.8% in six hours (Table I in Column 8). After the mixture in Example 4 is heated at 90°C for six hours, the mixture is then heated for two hours at 110°C to 112°C (Column 9, Lines 27 - 36). Again, TOPA has a one hour half-life temperature of from 101° to 111°C and TPMP has a one hour half-life that is about 5 to 10°C below this (Column 5, Lines 9 - 56).

D) In response the applicants' assertion that the Office does not explain why a person of ordinary skill in the art would employ the temperature conditions taught by

Art Unit: 1796

Wicher et al. only for the second step, the Wicher et al. reference has then been included in the rejection of Claims 1, 2, and 5 because it teaches the *second* polymerization step claimed and corresponding temperature conditions. The primary reference (Takamasa et al.) could not be used to teach the claimed temperature conditions of the second polymerization step, as it teaches a single step polymerization.

E) In response to the applicants' assertion that it cannot be reasonably assumed that the percentage of gel component recited in Claim 1 would automatically be achieved by using the process taught by Takamasa et al. in view of Wicher et al., it is the Office's position that Takamasa et al. in view of Wicher et al. teach the reaction conditions claimed. As the applicants have indicated that the gel content is strongly dependent upon the specific reaction conditions employed (Applicants' Remarks, Page 10, Paragraph 2), the Office consequently argues a gel content in the claimed range can be reasonably assumed to be taught by Takamasa et al. in view of Wicher et al.

Correspondence

Any inquiry concerning this communication or earlier communications from the examiner should be directed to MELISSA WINKLER whose telephone number is (571)270-3305. The examiner can normally be reached on Monday - Friday 7:30AM - 5PM E.S.T..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mark Eashoo can be reached on (571)272-1197. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Mark Eashoo/ Supervisory Patent Examiner, Art Unit 1796 16-Mar-08 MW March 12, 2008